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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/017,107	12/13/2001	John F. McEntee	10004452-1	6455
7:	590 08/26/2004		EXAM	INER
Gordon Stewart			NGHIEM, MICHAEL P	
Agilent Technologies P.O. Box 7599			ART UNIT	PAPER NUMBER
Loveland, CO 80537-0599			2863	
			DATE MAILED: 08/26/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Son Son
	Application No.	Applicant(s)
	10/017,107	MCENTEE ET AL.
Office Action Summary	Examiner	Art Unit
	Michael P Nghiem	2863
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirt riod will apply and will expire SIX (6) MON atute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
 1) ⊠ Responsive to communication(s) filed on 2 2a) ☐ This action is FINAL. 2b) ⊠ 3 3) ☐ Since this application is in condition for allocated in accordance with the practice und 	This action is non-final. wance except for formal matt	
Disposition of Claims		
4) Claim(s) 1-5,8 and 23-42 is/are pending in 4a) Of the above claim(s) is/are with 5) Claim(s) 1-5,8,30,31,41 and 42 is/are allow 6) Claim(s) 23-25 and 32-40 is/are rejected. 7) Claim(s) 26-29 is/are objected to. 8) Claim(s) are subject to restriction are	drawn from consideration. red.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyar rection is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bu * See the attached detailed Office action for a	nents have been received. The nents have been received in Action or a priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage
See the attached detailed Office action for a	list of the certified copies not	received.
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date	Paper No(s	tummary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)

DETAILED ACTION

The Amendment filed on June 29, 2004 has been acknowledged.

Withdrawal of Allowability

1. The indicated allowability of claims 23-25 and 32-40 is withdrawn in view of the newly discovered reference(s) to Faulkner et al. (US 2002/0138228) and Bruhn et al. (US 6,458,583). Rejections based on the newly cited reference(s) follow.

Claim Objections

- 2. Claims 23, 25, 32, 34, and 35 are objected to because of the following informalities:
- claim 23, "a fluid supply" (line 4) should be a fluid supply vessel --.
- claim 25 lacks a transitional phrase.
- claim 32, "a fluid supply" (line 4) should be a fluid supply vessel --.
- claim 32, the pressure gauge (line 2) is not connected to other elements.
- claim 34, "a fluid supply reservoir" (line 1) should be a fluid supply vessel --.
- claim 35, "said supply vessel" (line 1) should be said fluid supply vessel --.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 23-25 and 32-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Faulkner et al. (US 2002/0138228) in view of Bruhn et al. (US 6,458,583).

Regarding claims 23, 32-38, and 40, Faulkner et al. discloses a method of replenishing a pulse jet reservoir (Fig. 9) comprising:

- providing a printing system (Fig. 9) comprising a pulse jet printhead (54), a pressure gauge (11), a reservoir (68), and a fluid supply vessel (80), wherein said reservoir has an inlet line (inlet line to 68) and an outlet line (outlet line from 68), said inlet line capped by a valve (82) for connection to a fluid supply (80) and said outlet line in fluid communication with said printhead (Fig. 9), wherein said pressure gauge comprises a manometer (11), and wherein said fluid supply vessel is connected to said reservoir via a supply vessel line (supply line connected to 82) connected to said valve (Fig. 9);
 - connecting said fluid supply vessel to said reservoir (Fig. 9);
 - opening said valve (open valve 82), and

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- feeding print medium from said fluid supply vessel to said reservoir (Fig. 9), wherein said print medium is fed under pressure to said reservoir during use of said pulse jet nozzle (Fig. 9).

Regarding claim 39, Faulkner et al. discloses that gauge pressure is monitored (via 84) and pressure compensation is applied to maintain said pressure within a desired range (via 82, Fig. 9).

However, Faulkner et al. does not disclose that said print medium comprises a biopolymer or precursor thereof and a method of producing a biopolymer array.

Nevertheless, Bruhn et al. discloses a print medium comprising a biopolymer (Abstract, lines 1-2) for the purpose of preparing nucleic (biopolymer) arrays (Abstract, lines 7-10, column 2, lines 30-33).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Faulkner et al. with a print medium comprising a biopolymer as disclosed by Bruhn et al. for the purpose of preparing nucleic (biopolymer) arrays.

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Allowable Subject Matter

- 4. Claims 26-29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
 - 5. Claims 1-5, 8, 30, 31, 41, and 42 are allowed.

Reasons For Allowance

6. The combination or method as claimed wherein a printing system comprising lines configured for individually connecting a printhead and manometer to a fluid source (claims 1, 30, 31, 41, 42) or contacting a biopolymeric array having a polymeric ligand that specifically binds to said analyte, with a sample suspected of comprising said analyte under conditions sufficient for binding of said analyte to a biopolymeric ligand on said array to occur (claim 26) is not disclosed, suggested, or made obvious by the prior art of record.

Response to Arguments

7. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (571) 272-2277. The examiner can normally be reached on M-H from 6:30AM – 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached at (571) 272-2269. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MICHAEL NGHIEM PRIMARY EXAMINER

Michael Nghiem

August 24, 2004